

REMARKS

The Examiner has required restriction to one of the following inventions:

- I. Claims 1-9 and 18-24, drawn to a method and apparatus for transmitting a signal over a channel
- II. Claims 10-17, drawn to a particular receiving apparatus for receiving a signal over a channel
- III. Claims 25-32, drawn to a method for communication over plural channels
- IV. Claims 33-35, drawn to testing

Applicant selects invention I for examination.

Nevertheless, Applicant traverses the Examiner's characterization of claims 10-17 as being directed towards a different invention than claims 1-9 and 18-24. The receiver recited in claim 10 performs the inverse of the operations performed by the transmitter recited in claim 18. The transmitter of claim 18 modulates an arbitrary datum according to a modulation scheme and modifies a communication carrier according to a modification scheme. The receiver of claim 10 demodulates the arbitrary datum and detects a signal that was sent via the modified carrier. Therefore, the receiver of claim 10 is intended specifically for use with the transmitter of claim 18 and cannot be utilized independently of the transmitter of claim 18.

In case the Examiner fails to accept this argument, new claim 36 has been added. New claim 36 is claim 10 reworded to depend from claim 1. By depending from claim 1, new claim 36 is part of invention I.

In addition, Applicant has amended claims 25 and 32 to include the limitations of claim 1. This amendment places claims 25-32 within invention I.

Finally, Applicant has added new claims 37 and 38 to recite invention IV in the context of invention I. New claim 37 recites a communication system, such as the communication system illustrated in Figure 8, including a testing subsystem of the type recited in claim 32 and in which the communicating devices include transmitters of the type illustrated in claim 18. New claim 38 is claim 35 with the step of conveying a message replaced with the step of transmitting a signal by the method of claim 1. Note that on page 31 line 24 of the specification, the "messages" of block 707 of Figure 9 are referred to as "signals". The inclusion in claims 37 and 38 of limitations taken from claims 1 and 18 places claims 37 and 38 within invention I.

Respectfully submitted,



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